	Application No.	Applicant(s)	
Notice of Allowability	10/072,627	BUENO HARTO ET AL.	
	Examiner	Art Unit	
	Brian J. Sines	1743	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED in or other appropriate commits of the commits of the commits	th the correspondence address n this application. If not included unication will be mailed in due course.	THIS initiative
1. This communication is responsive to			
2. ⊠ The allowed claim(s) is/are <u>1</u> .			
3. The drawings filed on are accepted by the Examine	∍r.		
 4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm 	e been received. e been received in Application cuments have been received of this communication to file MENT of this application.	on No d in this national stage application from a reply complying with the requiremen	nts
INFORMAL PATENT APPLICATION (PTO-152) which giv	es reason(s) why the oath or	AMINER'S AMENDMENT OF NOTICE (declaration is deficient.	JF
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in 18 DEPOSIT OF and/or INFORMATION about the deposite of the position of the positio	son's Patent Drawing Review s Amendment / Comment or s.84(c)) should be written on the header according to 37 CF sit of BIOLOGICAL MATE	in the Office action of the drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the	
attached Examiner's comment regarding REQUIREMENT	FOR THE DEPOSIT OF BIC	JEOGICAL MATERIAL.	
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Si Paper No./ 08), 7. ⊠ Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance	

Application/Control Number: 10/072,627

Art Unit: 1743

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: The protective sheath (14) is not labeled in figure 1. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Allowable Subject Matter

Claim 1 is allowed.

The following is an examiner's statement of reasons for allowance:

The cited prior art teach various oxygen sensing probes.

The cited prior art neither teach or fairly suggest an oxygen probe comprising a sensor element housed in a mounting structure of the probe for coupling onto a pressurized duct or enclosure with the assistance of a gasket, which provides a hermetic mount for the probe, wherein the mounting structure is comprising a first metallic body and a second metallic body screwed axially inside the first body pressing onto the sensor element, wherein the gasket is interposed between the first body and the duct characterized in that the first body is provided

Application/Control Number: 10/072,627

Art Unit: 1743

with a neck for mounting by a thread on an orifice provided for such purpose on a wall of the duct or pressurized enclosure, wherein the neck is surrounding the sensor element and is extending internally from the duct wall, wherein the first body is comprising an internal seat for stopping the sensor element in cooperation with a rear area provided in the sensor element and with a deformable metallic washer to obtain a hermetic seal, wherein the second body is provided with an axial concentric passage, wherein a metallic tube and a protective sheath are placed, wherein the protective sheath is interposed therein providing insulation, and wherein the metallic tube is comprising a soldered metallic washer, which is in electric contact with the sensor element.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Phillippi et al. teach an oxygen sensing device, which is for use in extreme temperatures, utilizing a mounting structure comprising a steel shell casing. Worrell et al. teach an oxygen sensing device, which is for use in high-temperature and corrosive chemical processing applications, such as in metallurgy, incorporating the use of a protective sheath means. Shiomi et al. teach an oxygen sensor, which is for use with an internal combustion engine, which incorporates the use of hollow metal casing and a protective sheath. Bannister et al. teach an oxygen sensor probe utilizing a protective sheath structure.

Art Unit: 1743

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines, Ph.D. whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11:30 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jill Warden
Supervisory Patent Examiner
Technology Center 1700